

# West Virginia Clinical and Translational Science Institute

## *Annual Meeting*

December 1, 2016

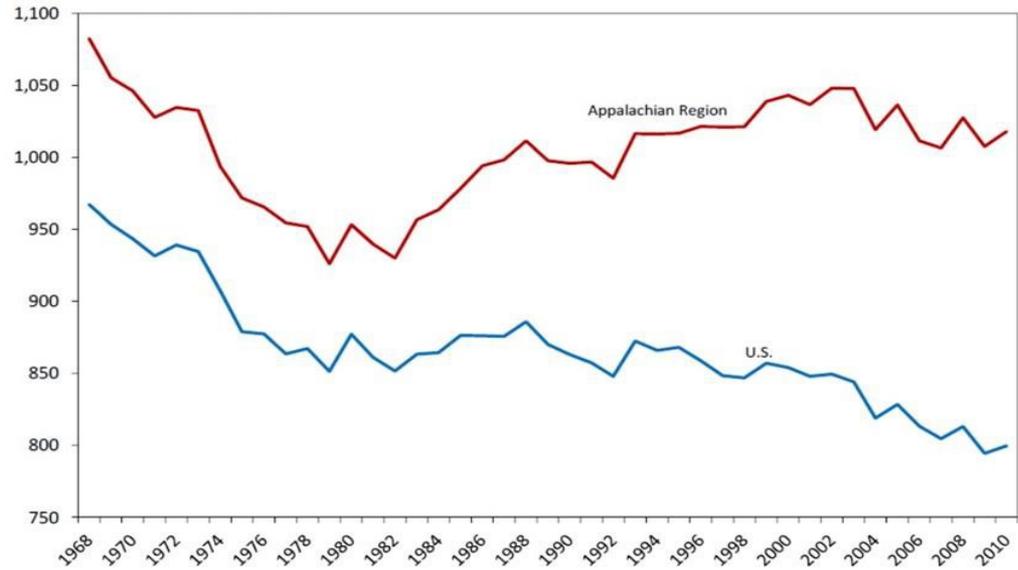




# Overview

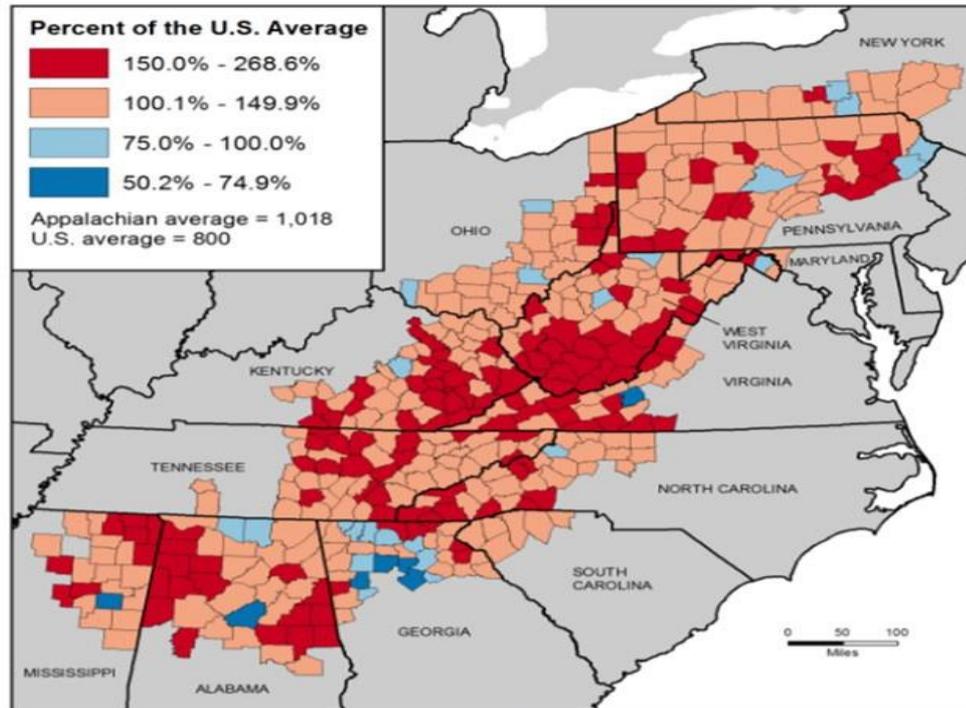
- West Virginia health challenges
- What has WVCTSI accomplished?
- Where do we go from here?

# Mortality Rates (per 100,000), 1968-2010



Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics  
 Note: Data are not adjusted for differences in mortality by age group

# Appalachian mortality rate in 2010 versus U.S. average



Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics

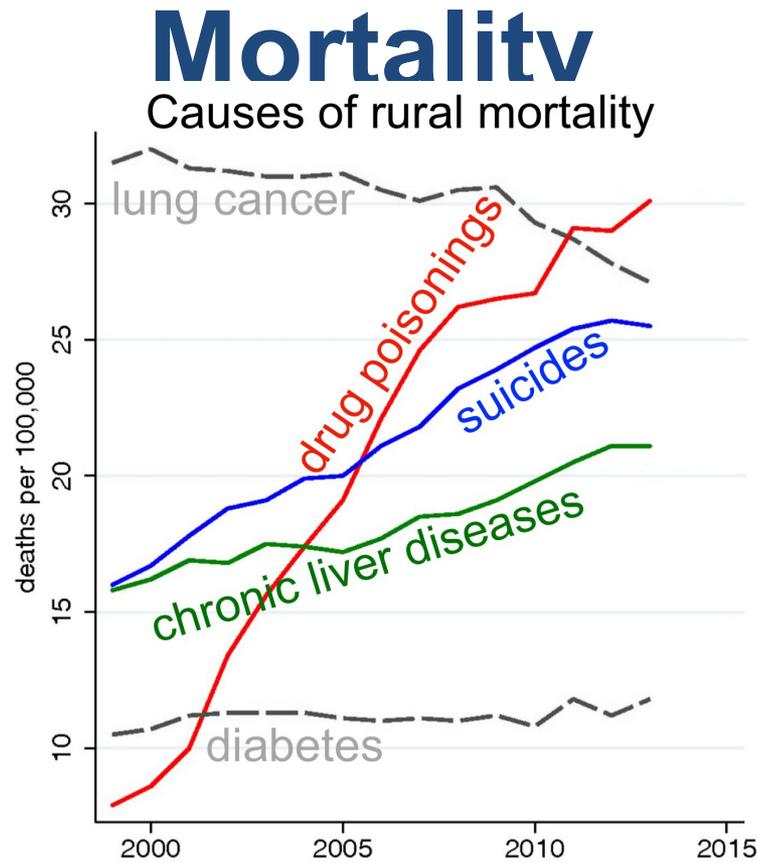


# WV Ranking Among 50 States in Selected Health Measures

Parameter	Value in State with Best (#1) Rank	WV Value	WV Rank among 50 states
<b>Cancer Deaths (per 100,000 population)</b>	146.1	221.6	48
<b>Cardiovascular Deaths (per 100,000 population)</b>	186.5	299.6	45
<b>Dental Visits (% of adults by self report)</b>	74.9	54.2	50
<b>Drug Deaths (per 100,000 population)</b>	2.7	32.4	50
<b>Heart Attack (% of adults by self report)</b>	2.9	7.4	50
<b>Heart Disease (% of adults by self report)</b>	2.4	7.8	50
<b>High Blood Pressure (% of adults by self report)</b>	24.2	41	50
<b>Poor Physical Health Days (Days in previous 30)</b>	2.9	5.3	50
<b>Premature Death (Years lost per 100,000 population)</b>	5,414	10,129	49
<b>Smoking (% of adults by self report)</b>	9.7	26.7	50
<b>Stroke (% of adults by self report)</b>	1.8	4.6	48

Data Source: America's Health Rankings, 2015 Annual Report.

# Drivers of Increasing Rural Mortality



Anne Case, and Angus Deaton *PNAS* 2015;112:15078-15083

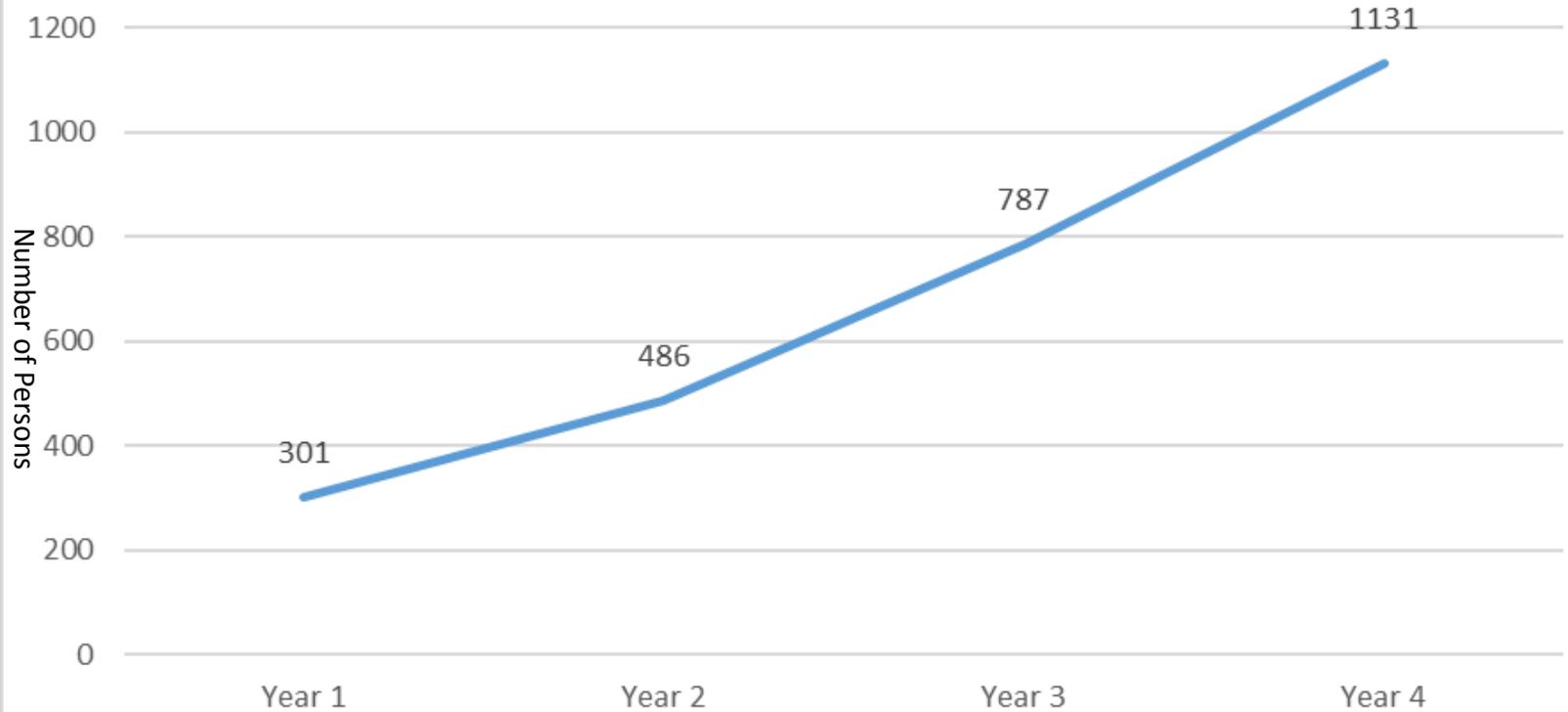


# What has WVCTSI Accomplished?



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## WVCTSI Membership, Years 1-4

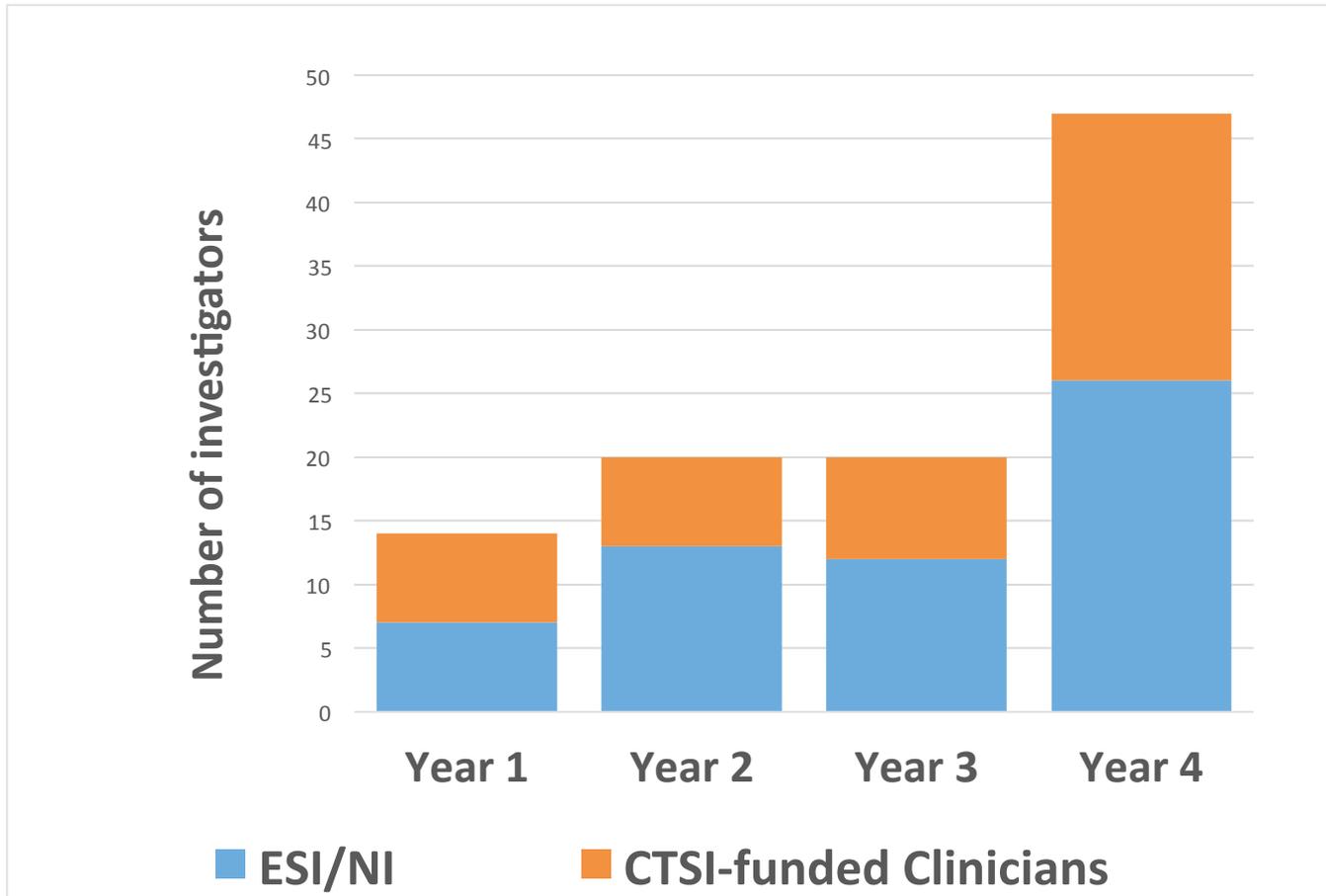


\*To date, Year 5 membership has reached 1,211

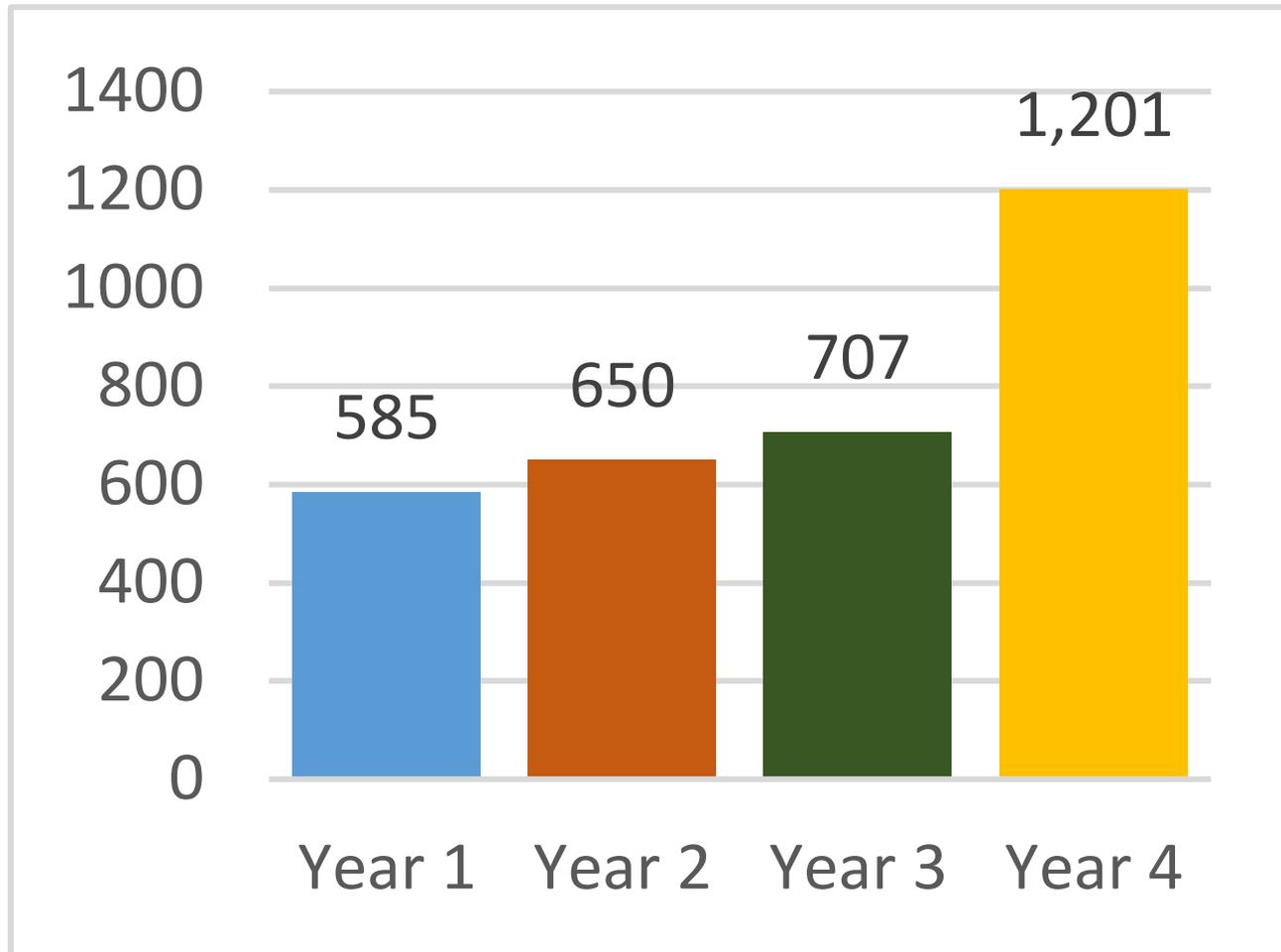
# Investigator Recruitment

	Proposed	Recruited
WVU School of Medicine	11	16
WVU School of Nursing	2	1
WVU School of Pharmacy	3	5
WVU School of Dentistry	3	3
WVU School of Public Health	2	2
	<b>25</b>	<b>27</b>

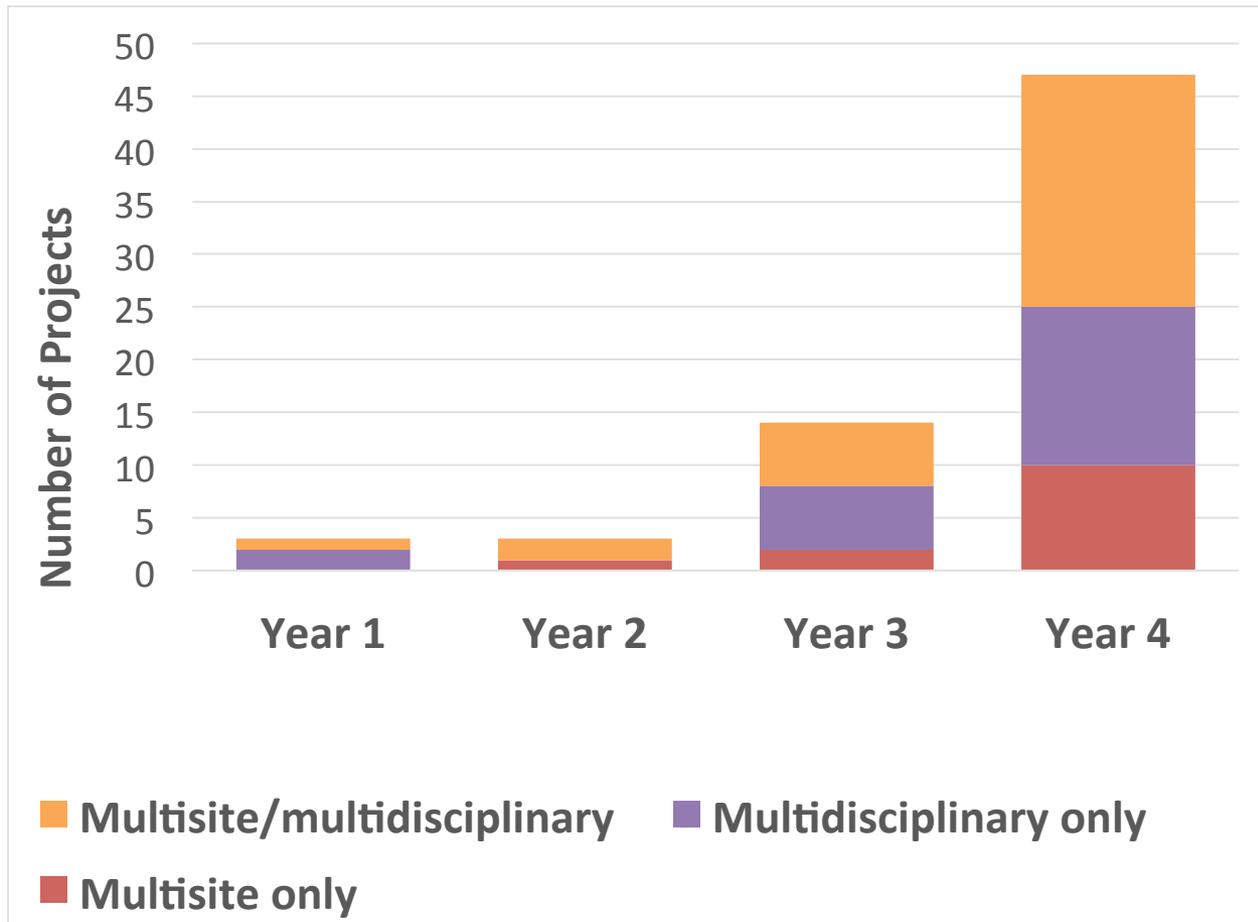
# WVCTSI-funded Early-Stage (ESI) & New (NI) and Clinician Investigators



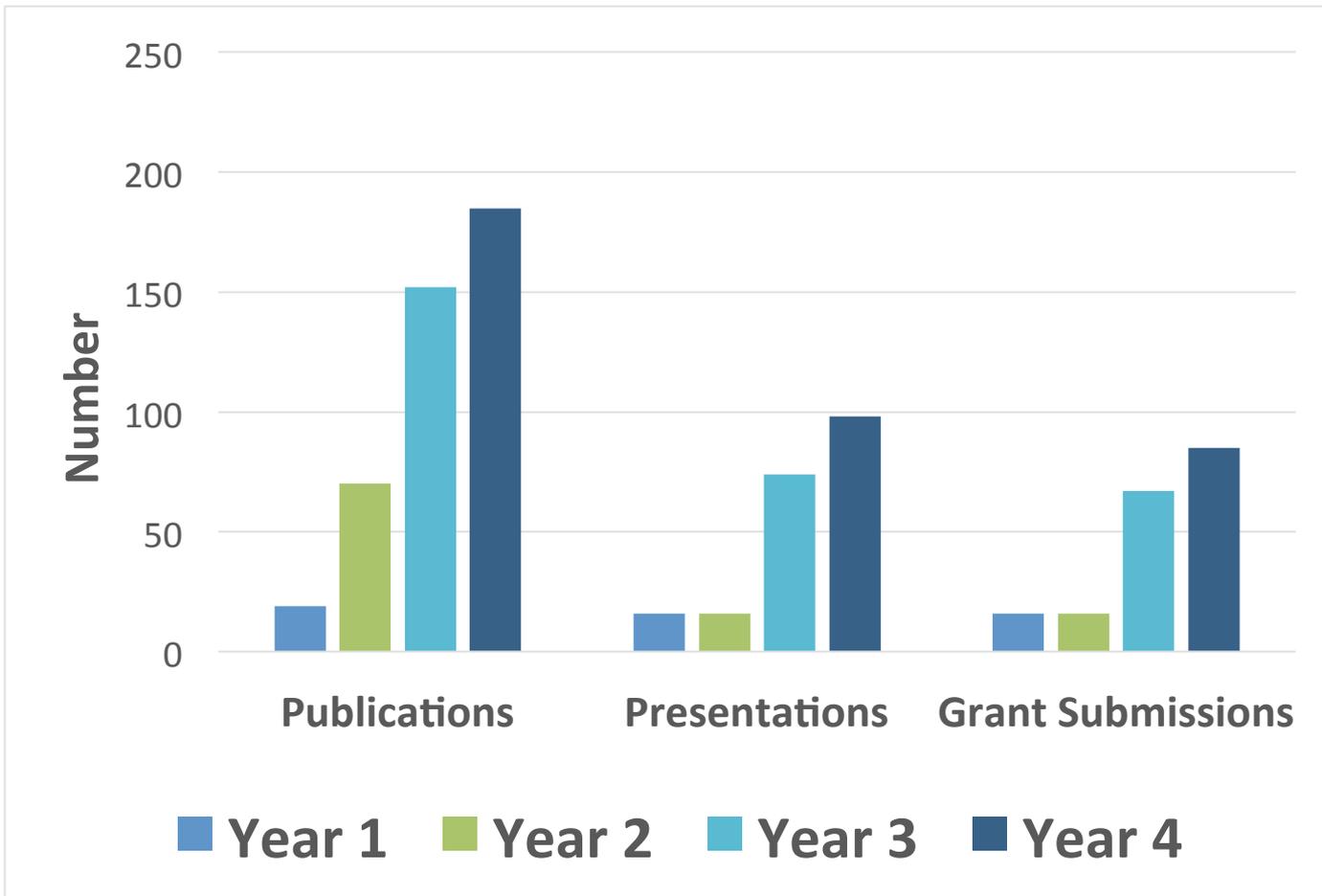
# New WVCTSI-Supported Projects



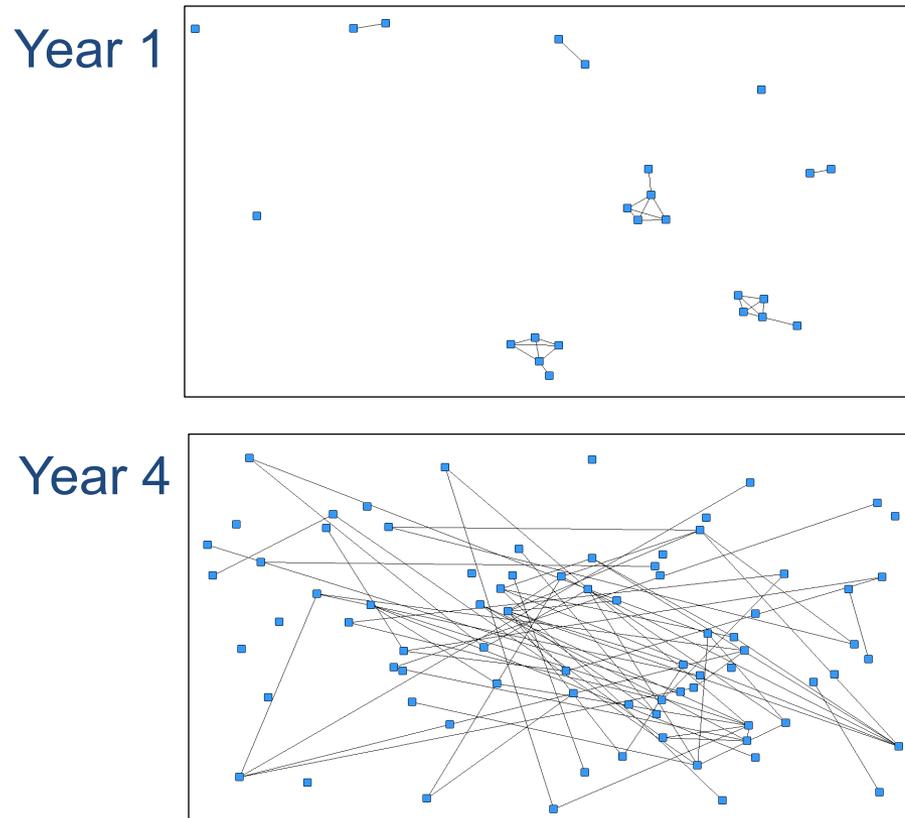
# Multisite & Multidisciplinary Projects



# Research Productivity by Year

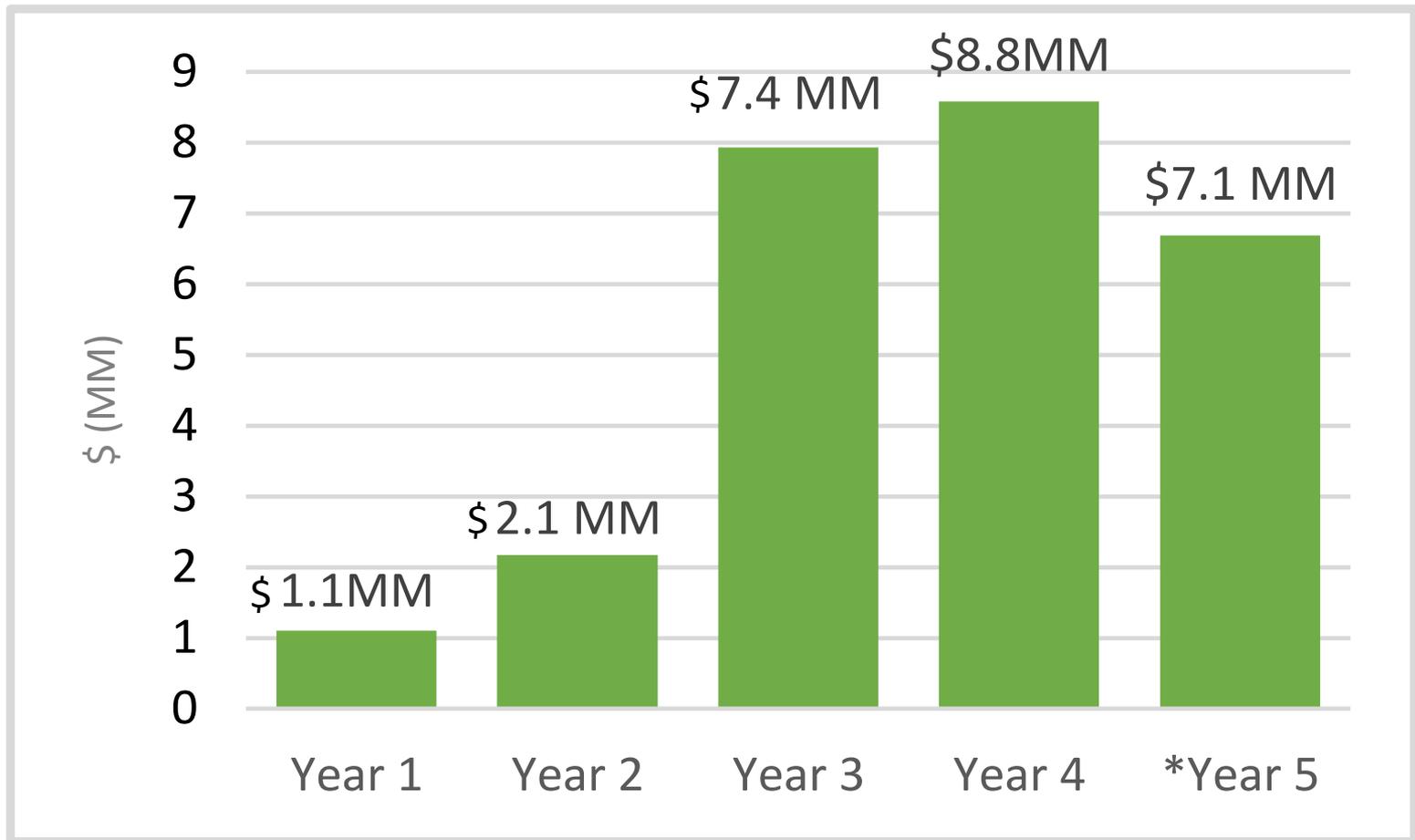


# Network Analysis of Published Investigators Years 1 and 4



The transition from Year 1 to Year 4 demonstrates an enhanced collaborative network with a tripling of published authors and a four-fold increase in collaborations.

# Total External Awards WVCTSI Investigators



***\*Year 5 is July 1, 2016 - September 23, 2016 only***

# Return on Investment

- **\$27.8 MM** has been invested by WVCTSI through Year 4.
- **\$26.8 MM** in new external research funding has been enabled
  - Includes transferred awards, new funding awards, and industry contracts
- Total WVU NIH funding has increased
  - **\$13,047,666** in Year 1 of the CTR to **\$17,264,525** in Year 4
- **256 individuals** have been employed (full and part time) as a result of WVCTSI funds
  - **\$14,220,195** invested in wages and fringe benefits
- Additional **scientific training opportunities for graduate (27 total) and undergraduate (30 total) students** in WV were also made available by WVCTSI funding.

# WVCTSI Catalyzed Transformations

- Clinical Research
  - Clinical Research Practice-Based Research Network (PBRN)
  - IRB turnaround time cut in half (39 days)
  - IRB reciprocity amongst all partners
- Informatics
  - Integrated Data Repository (2 million lives)
- Practice Transformation
  - ECHO program – hepatitis C
  - WV Medicaid decision to cover retinal screening
- Investigator Development
  - Research Scholars Program created
  - Intensive pilot project mentoring



# Where do we go from here?

## Year 5 Initiatives

# Priority Initiatives – Year 5

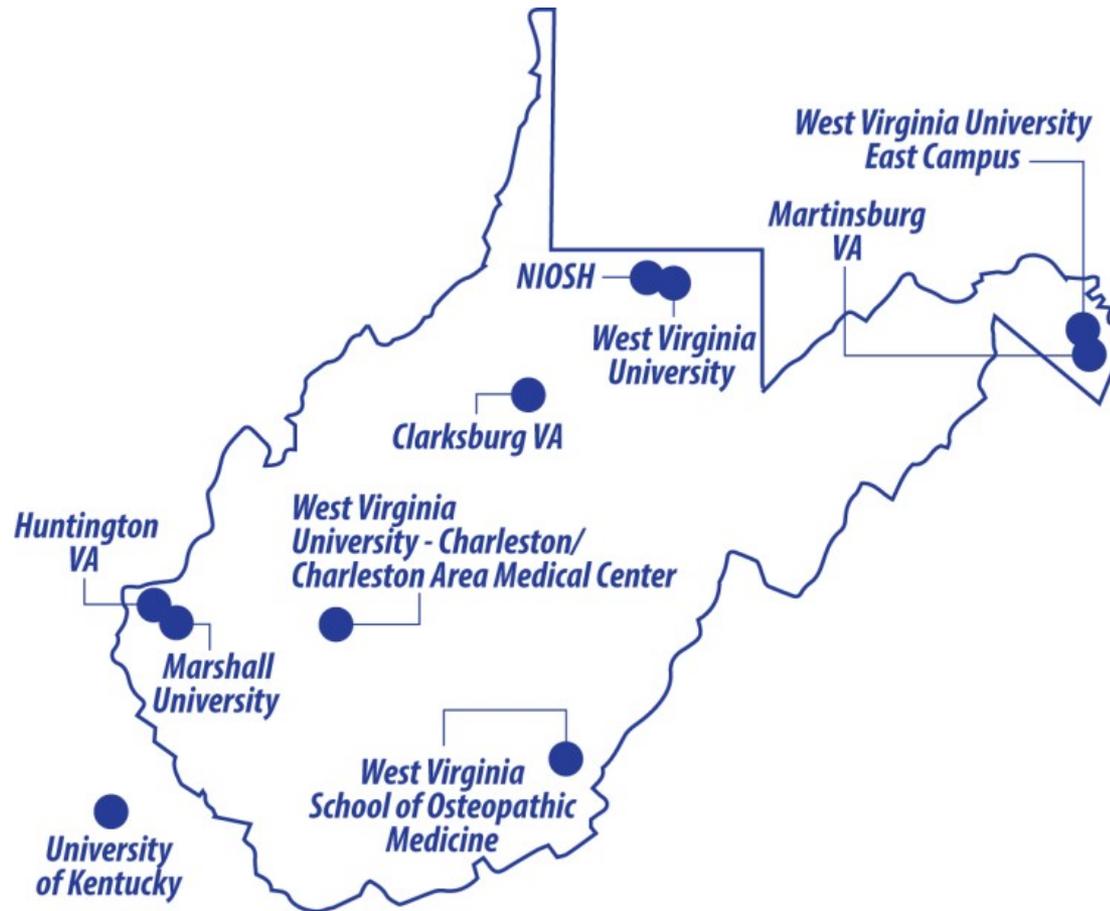
- Investigator tracking database
- Engage clinical departments
- Establish Clinical Trial Center of Excellence
  - Ensure regulatory compliance
  - Implement consistent quality assurance
  - Facilitate faster contract negotiation
  - Extend Principal Investigator support
- Create grant writing service
- Analytics initiatives
  - TriNETX
  - Genospace
  - Consultant retained



# Where do we go from here?

## Year 6 and Beyond

# Geographic Distribution of WVCTSI Partners (Years 6-10)



# Thank You!!

*PARTNERING FOR BETTER HEALTH*



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